SAFETY DATA SHEET

Revision Date: 5-Apr-2021 **Version 1.02**

1. IDENTIFICATION

Product identifier

Product name Foxfire Multi-Clean™

Recommended use Acid cleaner, mineral stain remover and concrete etcher/surface preparation chemical
Uses advised against Any other purposes.

Details of the supplier of the safety data sheet

Foxfire Enterprises, Inc.
18440 3rd Street
San Antonio, Texas 78266
(254) 829-1943

Emergency telephone number

Emergency telephone **Foxfire** (254) 829-1943
CHEMTREC (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canadian Workplace Hazardous Material Information System (WHMIS)

Skin Corrosion/Irritation	Category 2 - (H315)
Serious Eye Damager/Irritation	Category 2A - (H319)

Label Elements

Signal word
WARNING

Hazard statements
Causes skin irritation
Causes serious eye irritation

Precautionary Statements
Precautionary Statements - Prevention
Wash hands and affected area thoroughly after handling
Wear protective gloves/eye protection/face protection

Precautionary Statements - Response
If exposed or concerned: Get medical advice/attention.

Skin
IF ON SKIN (on hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention

Eyes
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)
Health: Not Applicable.
Physical: Not Applicable.

Other Information
None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture. Health hazard information is based on its ingredients

Chemical Name	CAS No	Weight - %
Inhibited Acid solution	*	*
Hydrogen chloride	7647-01-0	*
2-hydroxypropane-1,2,3-tricarboxylic acid	77-92-9	*

*** The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

Description of first aid measures

General Advice Do not get in eyes, on skin, or on clothing. When symptoms persist or in all cases of doubt seek medical advice.

Inhalation Move to fresh air.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice.

Protection of First-aiders Use personal protective equipment. Avoid contact with skin, eyes, and clothing

Most important symptoms and effects, both acute and delayed

Main symptoms Redness, rash, itching
Eye damage/irritation, such as: tearing, swelling, and blurred vision.

Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment: Use CO2, dry chemical, or foam.

Extinguishing media which shall not be used for safety reasons
None

Special hazards arising from the substance or mixture

Special Hazard
Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous decomposition products
Thermal decomposition products may include but are not limited to oxides of carbon. Flammable hydrogen gas can be generated when this product is reacted with certain metals.

Advice for firefighters

Special protective equipment for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes, and clothing.

Advice for non-emergency personnel	Material can create slippery conditions
Advice for emergency responders	For personal protection see section 8

Environmental precautions
Prevent further leakage or spillage if safe to do so. Keep people away from and upwind of spill/leak. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up
Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust). Dike to collect large liquid spills. After cleaning, flush away traces with water.

Reference to other sections
See Section 8/12/13 for additional information

7. HANDLING AND STORAGE

Precautions for Safe handling
Wear personal protective equipment. Avoid contact with skin, eyes, and clothing. Remove and wash contaminated clothing before re-use. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink, or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions
Keep containers tightly closed in a dry, cool, and well-ventilated place. Storage temperature should be above freezing and below 120ºF

Recommended Shelf Life
No information available

Incompatible materials
Strong oxidizing agents, strong acids, strong bases

Specific end uses

Specific use(s)	Acid cleaner, mineral stain remover and concrete etcher/surface preparation chemical

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Exposure controls

Engineering Controls	Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear protective clothing to cover exposed areas of arms, legs, and torso.
Respiratory protection	No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
Hygiene measures	Wear personal protective equipment. Avoid contact with skin, eyes, and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	**Odor**	Slightly acidic
Appearance	Pale yellow	**Odor threshold**	No information available

Property	**Values**	**Remarks / • Method**
pH	0.5	
Melting point/freezing point	No information available	
Boiling point/boiling range	No information available	
Flash point	> 200ºF	Estimated
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	Soluble	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other information

Molecular weight	No information available
VOC Content	No information available

VOC content (ASTM E-1868-10)	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity
None under normal use conditions

Chemical Stability
Stable under recommended storage conditions

Possibility of Hazardous Reactions
None under normal processing

Conditions to avoid
Do not freeze.

Incompatible materials
Strong oxidizing agents, strong acids, strong bases

Hazardous Decomposition Products
Thermal decomposition products may include but are not limited to oxides of carbon. Flammable hydrogen gas can be generated when this product is reacted with certain metals.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Irritating to skin, and eyes
Inhalation	Based on available data, the classification criteria are not met.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin.
Ingestion	Based on available data, the classification criteria are not met.

Component Information

Chemical Name	LD50/Oral	LD50/Dermal	LC50/inhalation
Hydrogen chloride	700 mg/kg (rat)	5010 mg/kg (rabbit)	= 3124 ppm (1hr Rat)
2-hydroxypropane-1,2,3-tricarboxylic acid	11700 mg/kg (rat)	>2000 mg/kg (rabbit)	

Information on toxicological effects

Symptoms Moderate skin irritation. Moderately irritating to the eyes. Due to the pH of the mixture (see Section 9) possible skin/eye corrosion can not be disregarded.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Irritating to skin
Serious eye damage/eye irritation	Irritating to eyes
Sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - Repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity
None known.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hydrogen chloride		282: 96 h Gambusia affinis mg/L LC50 static	
2-hydroxypropane-1,2,3-tricarboxylic acid		1516: 96 h Lepomis macrochirus mg/L LC50 static	EC_{50}: 120: 72 h (Daphnia magna)

Persistence and degradability
Readily biodegradable

Bioaccumulation
This product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

Chemical Name	NOEC	Partition coefficient (n-octanol/water) Log K_{ow}
2-hydroxypropane-1,2,3-tricarboxylic acid	NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l Exposure time: 8 d Test Type: static test	-1.72

Mobility
No information available

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal methods Dispose in accordance with applicable regional, national, and local laws and regulations

Contaminated packaging Observe all label precautions until container is cleaned, reconditioned, or destroyed

14. TRANSPORT INFORMATION

DOT Not regulated as a dangerous good.

TDG Not regulated as a dangerous good.

IATA Not regulated as a dangerous good.

IMDG Not regulated as a dangerous good.

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	No information available
ENCS	No information available
IECSC	No information available
KECL	No information available
PICCS	No information available
AUSTRALIA (AICS)	No information available

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

TSCA Section 12(b) Export Notification
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this regulation.

Sara 313
Section 313 of the Tittle III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemicals which are subject to the reporting requirements of the Act and Tittle 40 of the Code of Federal Regulations, Part 372:

- Hydrogen chloride 7647-01-0

Sara 311/312

- Skin corrosion/irritation
- Serious eye damage/eye irritation

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This product contains the following substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorized Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

- Hydrogen chloride 7647-01-0 (EHS RQ: 5000 lbs.)

HAPS (Hazardous Air Pollutants:
This product contains the following substances regulated as Hazardous Air Pollutants (HAPS) pursuant to the clean air act:

- Hydrogen chloride 7647-01-0

US State Regulations

SCAQMD Rule 1144
This product has not been tested for VOC content by the ASTM E-1868-10 method and is not approved for sale or distribution in the SCAQM District of California if the product is used as a metal forming, metal removal, metal treating, metal protection fluid or as a direct-contact lubricant.

California Proposition 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

U.S. State Right-to-know Regulations

Chemical Name	New Jersey	Pennsylvania
Hydrogen chloride	X	X
Strong acid solution cleaner	X	X

U.S. EPA Label Information
EPA Pesticide Registration Number: No applicable

16. OTHER INFORMATION

NFPA	**Health hazards** 2	**Flammability** 0	**Instability** 0	**Physical and Chemical Properties** -
HMIS	**Health hazards** 2	**Flammability** 0	**Physical hazards** 0	**Personal Protection** X

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Revision Note Product name update

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such product when used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet